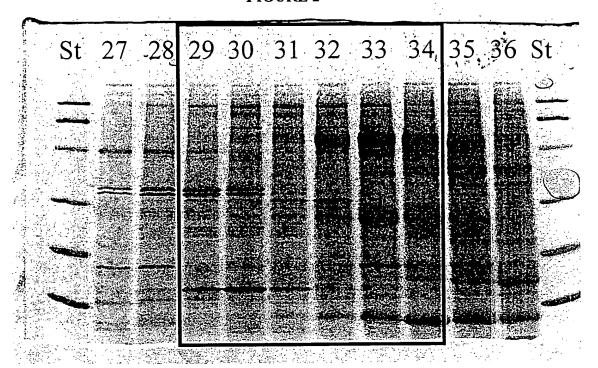
BEST AVAILABLE COPY

SDS – POLYACRYLAMIDE GEL OF OSTEOINDUCTIVELY ACTIVE TO PROTEINS FROM HPLC

Weight		pec
Molecular Weight (kD)	Reduced	Non-reduced
66 —		
45 —		
36 —		
24 —		
20 —		,
14		
' '		

FIG. 1



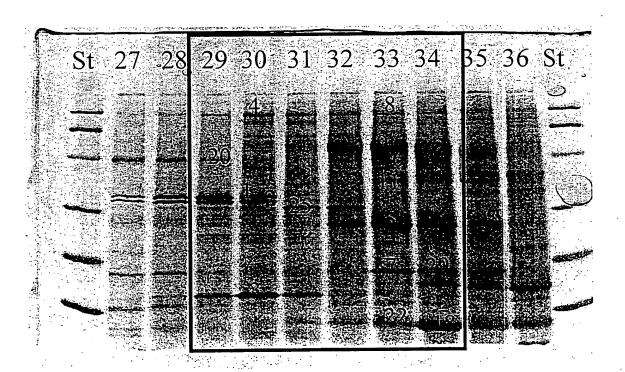
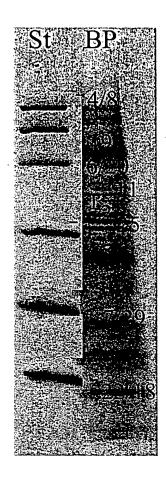


FIGURE 3



Band No.	Identity
1	Histone H1.c : */
2	Histone H1.c
3	Ribosomal protein RS20'
4	Similar to ribosomal protein LORP
5	BMP-3
6	α2 macroglobulin RAP and BMP-3
7	Similar to ribosomal protein LORP
8	BMP-3
9	BMP-3
11	Ribosomal protein RL6 and BMP-3
18	TGF-β2 / SPP 24
20	Factor H
22	TGF-β2
25	BMP-3 and H1.x
29	BMP-3 and ribosomal protein RL32

FIGURE 4

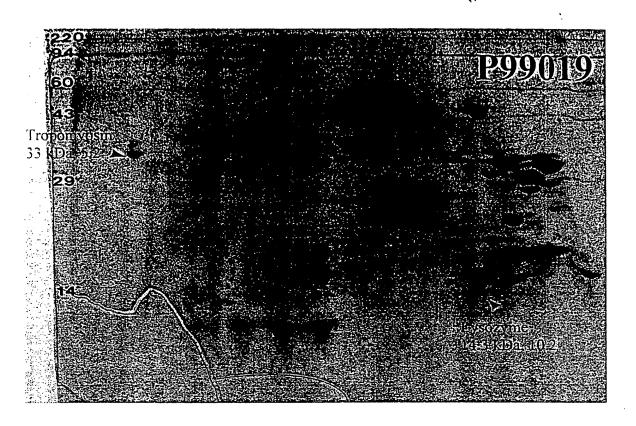


FIGURE 5

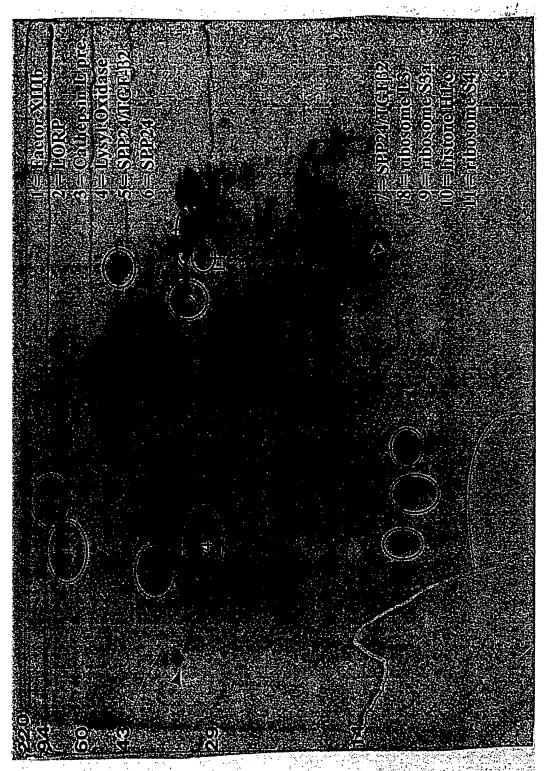
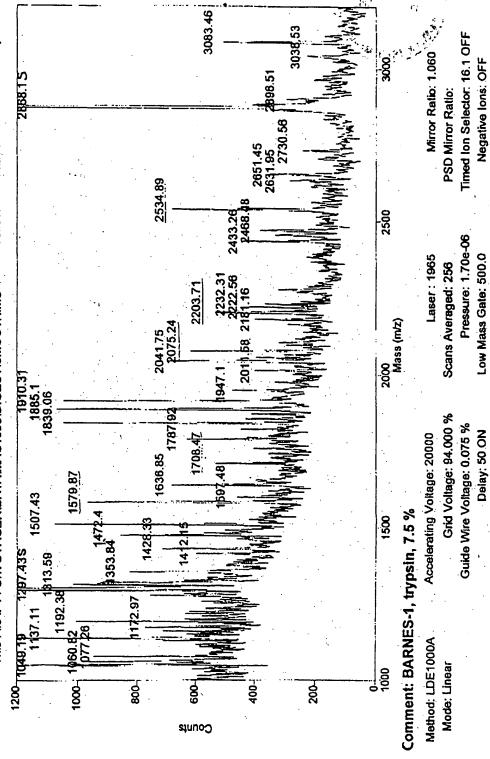


Figure 7A (Band 1)



Original Filename: c:\voyager\data\mag1099\digest\barne026.ms
This File # 1: C:\VOYAGER\DATA\WAG1099\DIGEST\SMOOTH.MS

Savitsky-Golay Order = 2 Points = 19 Collected: 10/12/99 2:13 PM Sample: 74

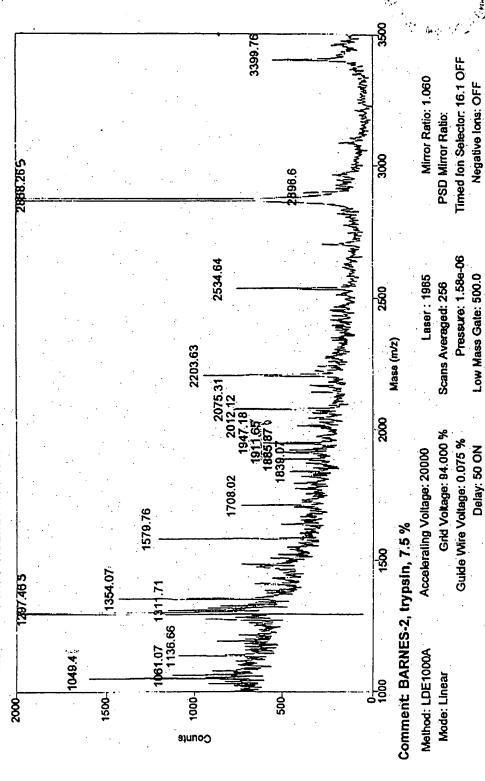


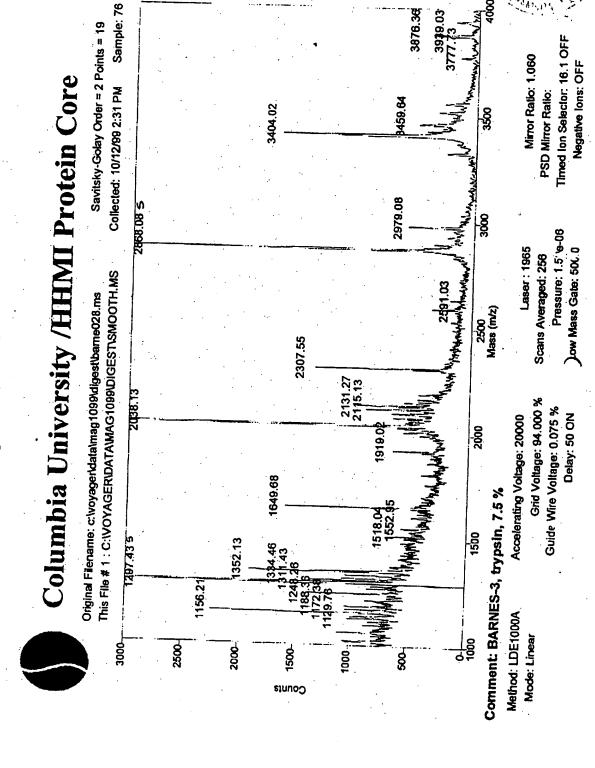


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Original Filename: c:\voyager\data\mag1099\diges\bare027.ms
This File # 1 : C:\VOYAGER\DATA\MAG1089\DIGEST\SMOOTH.MS

Savitsky-Golay Order = 2 Points = 19 Collected: 10/12/99 2:21 PM Sample: 75







Original Filename: c:\voyager\data\mag1099\barnes\barne037.ms This File # 1 : C:\VOYAGER\DATA\WAG1099\BARNES\SMOOTH.MS

Savitsky-Golay Order = 2 Points = 19 Collected: 10/27/99 2:30 PM Sample: 22

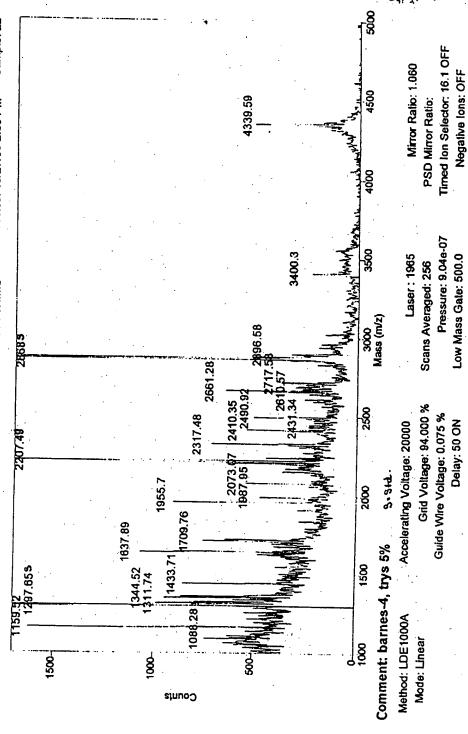


Figure 7E (Band 5)

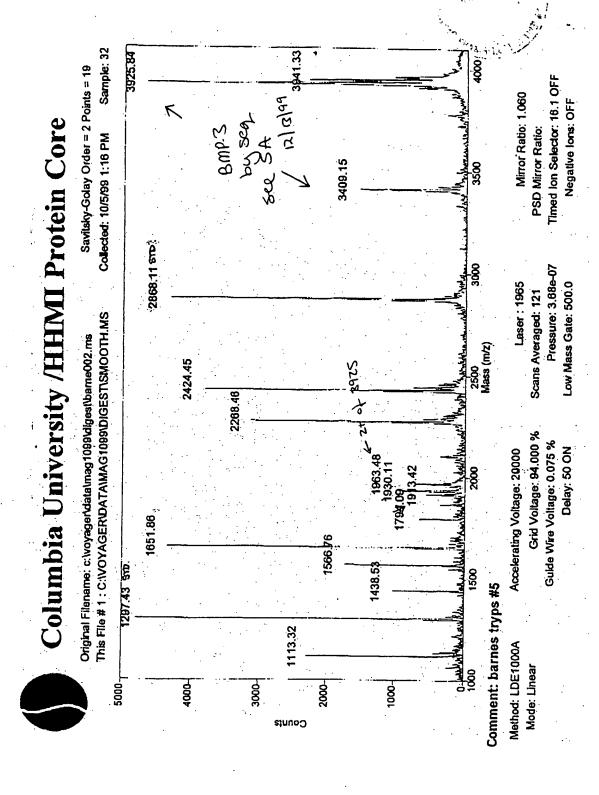
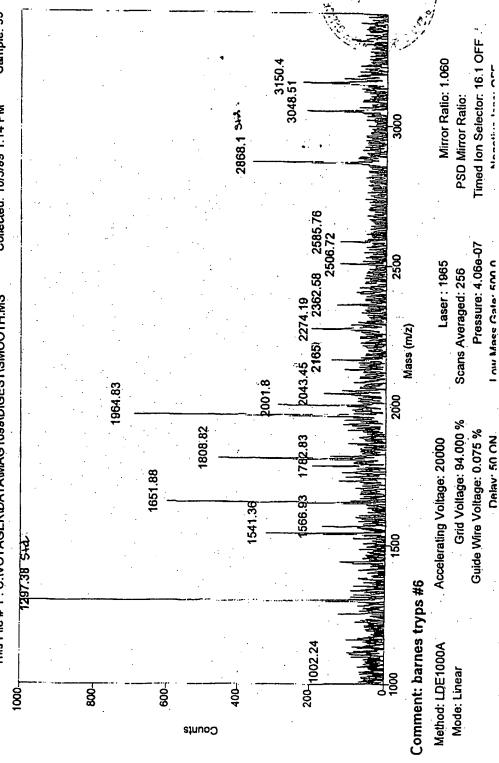


Figure 7F (Band 6)



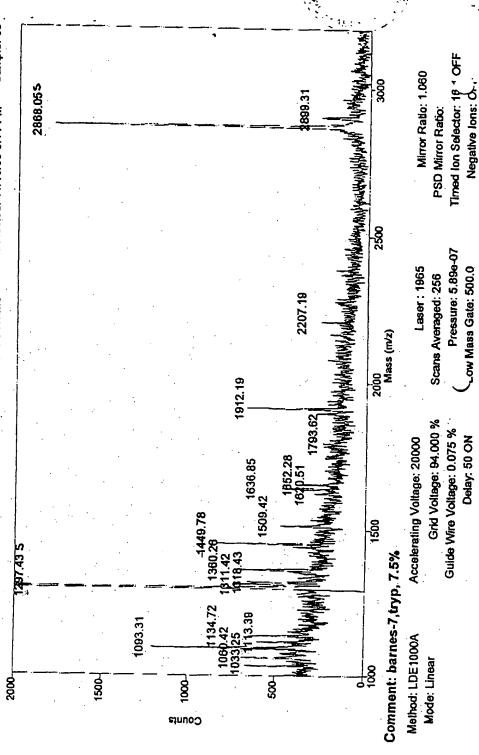
Savitsky-Golay Order = 2 Points = 19 Collected: 10/5/99 1:14 PM Sample: 33

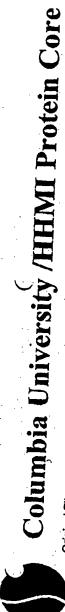






Savitsky-Golay Order = 2 Points = 19 Collected: 11/10/99 3:11 PM Sample: 65





Original Filename: c:\voyager\data\mag1199\digest\snow_005.ms This File # 1 : C:\vOYAGER\DATA\WAG1199\D\GEST\SMOOTH.MS Co

Savitsky-Golay Order = 2 Points = 19 Collected: 11/10/98 3:18 PM Sample: 64

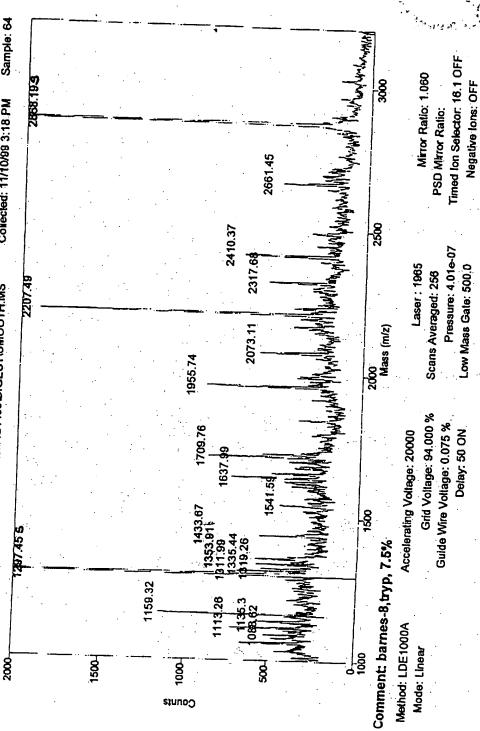
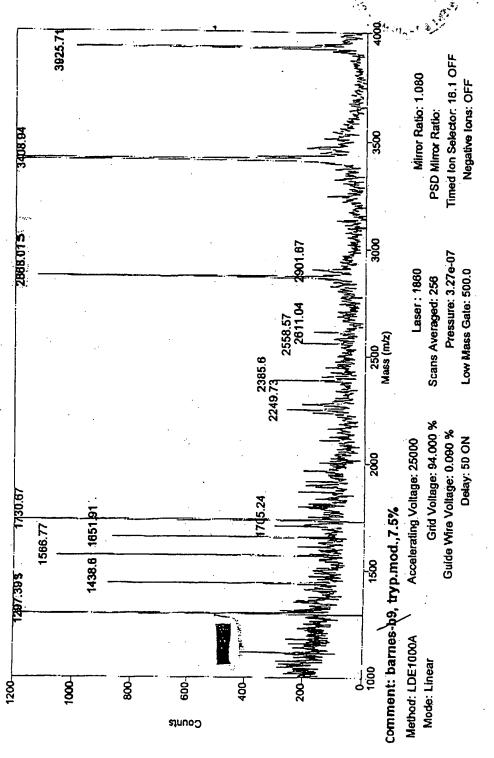


Figure 7I (Band 9)



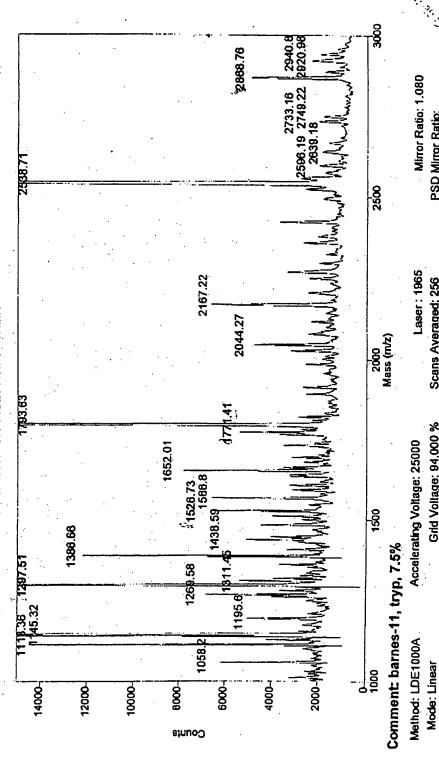






This File # 2: C:IVOYAGERIDATAIMAG1299DIGESTISMOOTH.MS Original Filename: c:\voyagar\data\mag1299\digest\barne004.ms

Savitsky-Golay Order = 2 Points = 19 Collected: 12/15/99 3:49 PM



Timed Ion Selector. 19 1 OFF

Pressure: 5.84e-07

Scans Averaged: 256

Grid Voltage: 94,000 %

Guide Wire Voltage: 0.090 %

Delay: 50 ON

Low Mass Gate: 500.0

PSD Mirror Ratio:

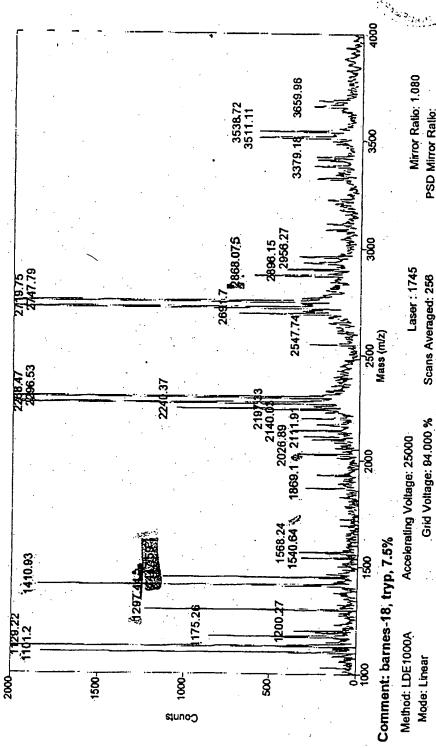
Negative lons: & .



Protein Core Columbia University /HHMI



Sample: 13 Savitsky-Golay Order = 2 Points = 19 Collected: 12/15/99 4:47 PM



Timed Ion Selector, 16.1 OFF

Pressure: 2.90e-07

Guide Wire Voltage: 0.090 %

Delay: 50 ON

Low Mass Gate: 500.0

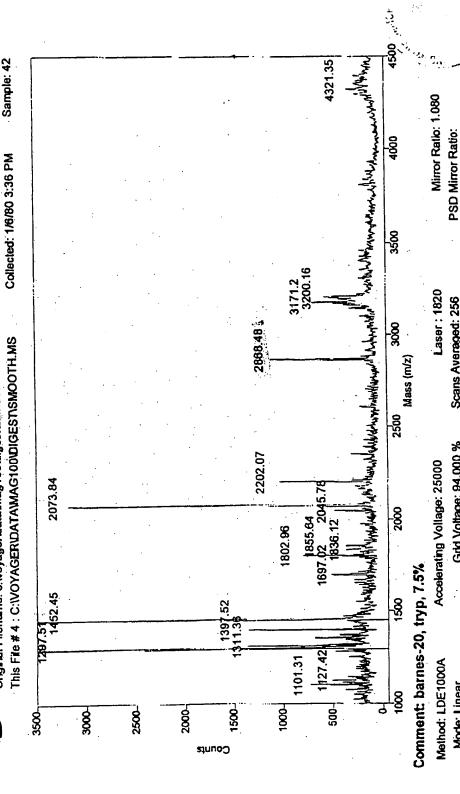
PSD Mirror Ratio:

Negative Ions: OFF



Original Filename: c:\voyager\data\mag100\digesf\bare001.ms

Savilsky-Golay Order = 2 Points = 19



Timed Ion Selector: 16 * OFF

Pressure: 9.21e-07 Low Mass Gate: 500.0

Scans Averaged: 256

Grid Voltage: 94.000 % Guide Wire Voltage: 0.090 %

Mode: Linear

Delay: 50 ON

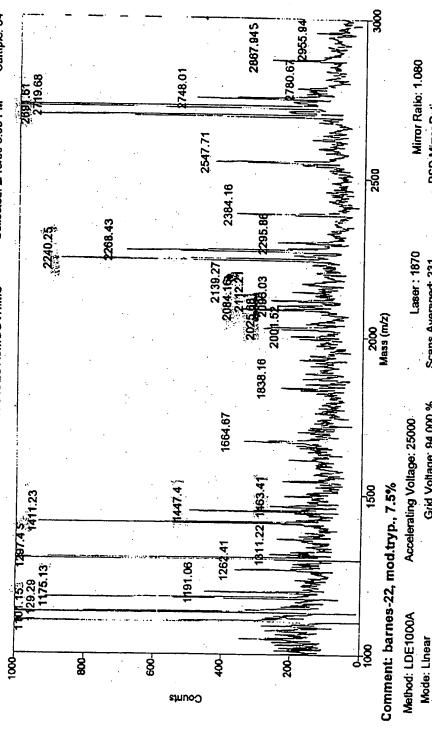
Negative lons: Or-



This File # 1: C:NOYAGERIDATAWAG200DIGESTISMOOTH.MS Original Filename: c.\voyager\data\rnag200\digest\bare003.ms

Savitsky-Golay Order = 2 Points = 19

Sample: 54 Collected: 2/16/80 3:35 PM



Grid Voltage: 94.000 % Guide Wire Voltage: 0.090 % Delay: 50 ON

Pressure: 3.43e-07 Scans Averaged: 231

PSD Mirror Ratio:

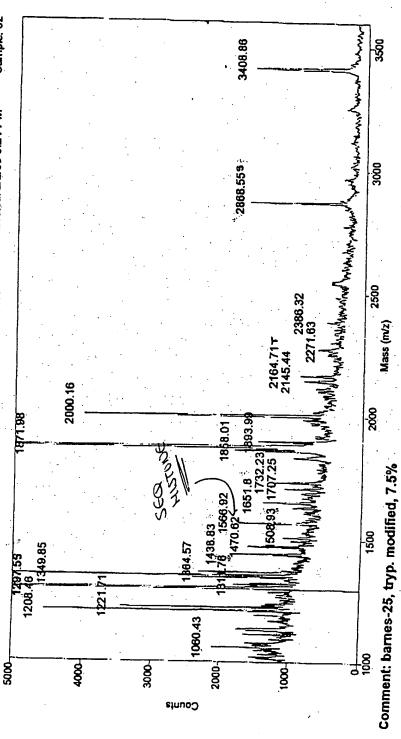
Negative lons: c

Timed Ion Selector: 16 1 OFF





Savitsky-Golay Order = 2 Points = 19 Collected: 2/2/80 3:24 PM Sample: 62



Timed Ion Selector: 19 * OFF

Pressure: 9.28e-07

Scans Averaged: 256

Grid Voltage: 94.000 % Guide Wire Voltage: 0.090 %

Accelerating Voltage: 25000

Method: LDE1000A Mode: Linear

Laser: 1860

LOW Mass Gate: 500.0

Delay: 50 ON

PSD Mirror Ratio:

Negative lons: Orr

Мі́пот Ratio: 1.080

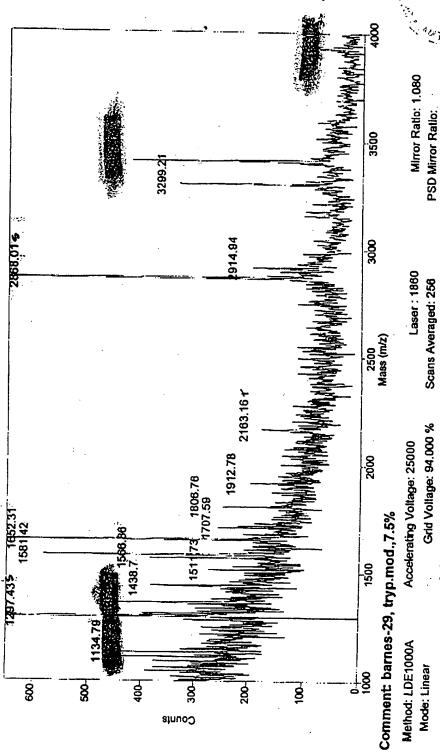
: .



Columbia University /HHMI Protein Core

This File # 2 : C:\VOYAGER\DATA\MAG200\D\GEST\SMOOTH\MS Original Filename: c:\voyager\data\mag200\digest\bame006.ms

Savitsky-Golay Order = 2 Points = 19 Collected: 2/23/80 3:19 PM



Timed Ion Selector: 16.1 OFF

Pressure: 3.82e-07

Guide Wire Voltage: 0.090 %

Delay: 50 ON

Low Mass Gate: 500.0

Negative Ions: OFF

Figure 8

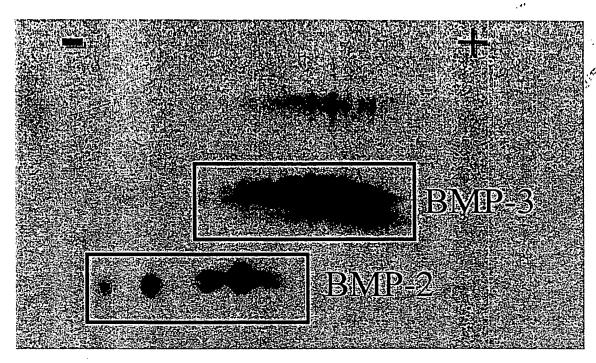


FIGURE 9A

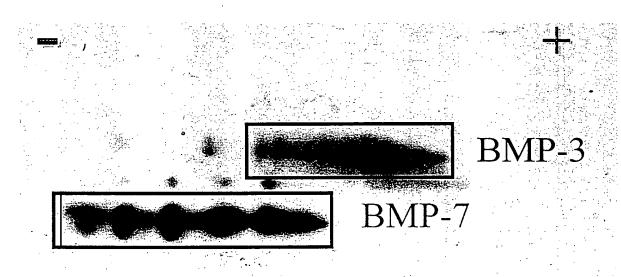


FIGURE 9B

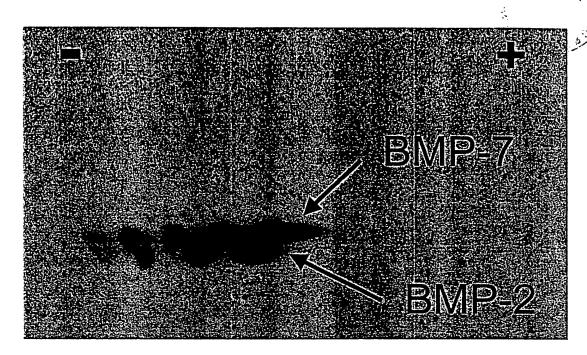


FIGURE 9C

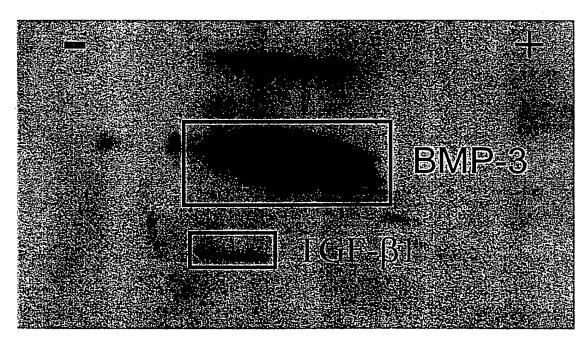
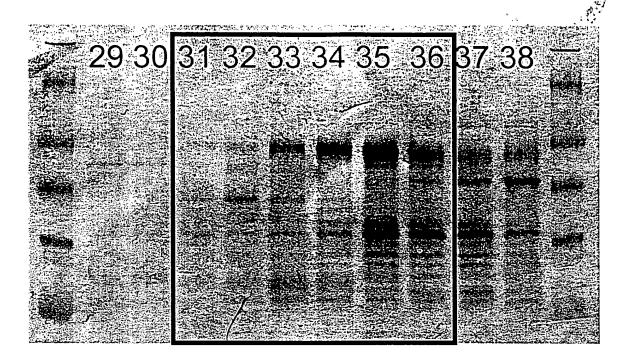
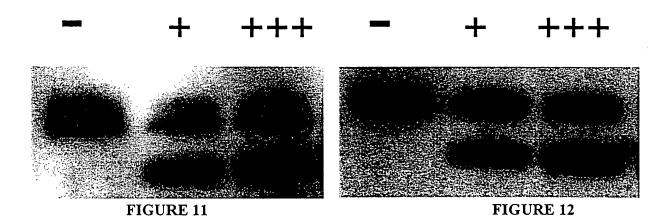
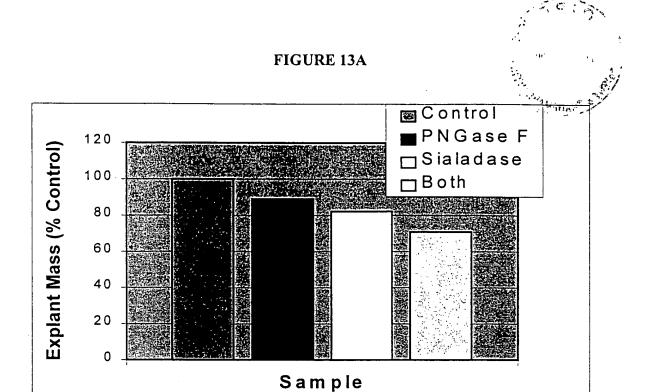


FIGURE 9D







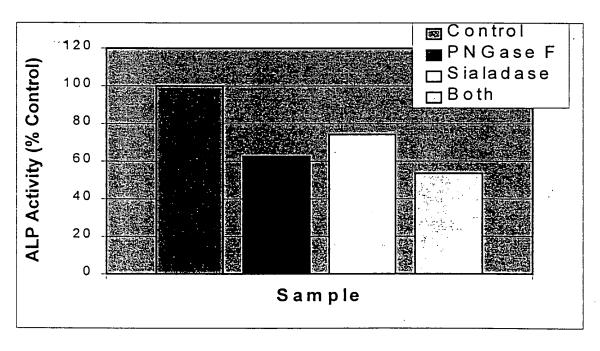
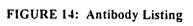


FIGURE 13B



Specificity	Antigen	Host Species	PC/MC	Source	Catalog No.
TGF-β1 (human)	Protein	Rabbit	Polyclonal	Promega	G1221
TGF-β2 (human)	Peptide	Rabbit	Polyclonal	Santa Cruz Biotechnology	sc-90
TGF-β3 (human)	Peptide	Rabbit	Polyclonal	Santa Cruz Biotechnology	sc-82
BMP-2 (human)	Protein	Rabbit	Polyclonal	Austral Biologics	PA-513-9
BMP-3 (human)	Peptide	Chicken	Polyclonal	Research Genetics	NA
BMP-4 (human)	Peptide	Goat	Polyclonal	Santa Cruz Biotechnology	so-6896
BMP-5 (human)	Peptide	Goat	Polyclonal	Santa Cruz Biotechnology	sc-7405
BMP-6 (human)	Peptide	Mouse	Monoclonal	Novocastra Laboratories	NCL-BMP6
BMP-7 (human)	Peptide	Rabbit	Polyclonal	Research Genetics	NA
FGF-1 (human)	Peptide	Goat	Polyclonal	Santa Cruz Biotechnology	sc-1884
osteonectin (bovine)	Protein	Mouse	Monoclonal	DSHB	AON-1
osteocalcin (bovine)	Protein	Rabbit	Polyclonal	Accurate Chemicals	A761/R1H
serum albumin (bovine)	Protein	Rabbit	Polyclonal	Chemicon International	AB870
transferrin (human)	Protein	Chicken	Polyclonal	Chemicon International	AB797
apo-A l lipoprotein (human)	Protein	Goat	Polyclonal	Chemicon International	AB740

Figure 15A: Identification of Proteins by Amino Acid Sequencing of Tryptic Fragments from 1D Gels

Band	Sample	Sequence Data	Best Database Match	Match	Identification	Species	Accession No.	AAs
-								
2	fx 49 (1579)	fx 49 (1579) XLAAAGYDVEK	ALAAAGYDVEK	11/11	histone H1.c	human	human 87668 (NCBI)	65-75
က	fx 67 (1346)		SLEKVCADLIR	11/11	40s Ribosomal Protein S20	rat	R3RT20 (PIR)	31-41
4	fx 65 ()	fx 65 () (V)VCGMLGFPSEAPV	VVCGMLGFPGEKRV	11/14	LORP	mouse	AAC95338 (NCBI)	213-226
2	N terminal seq	N terminal seg STGVLLPLQNNELPG	STGVLLPLQNNELPG	15/15	BMP-3	human	human 4557371 (NCBI)	290-304
	fx 72 (3925)	STGVLLPLQNNELPGAEYQY	STGVLLPLQNNELPGAEYQY	20/20	BMP-3	human	human 4557371 (NCBI)	290-309
:	fx 74 (3409)	fx 74 (3409) STGVLLPLQ STGVLLPLQ	STGVLLPLQ	6/6	BMP-3	human	human 4557371 (NCBI)	290-298
9	fx 55 (1566)	fx 55 (1566) (S)QTLQFXE	SQTLQFDE	2//8	BMP-3	human	4557371 (NCBI)	346-353
	fx 47	VYAF	no match		233			
	N terminal seq	N terminal seq HAGKYSREKNT(P)A(P)	HGGKYSREKNQPKP	11/14	α2-Macroglobulin Receptor Assoc. Pro.	human	human P30533 (Swiss-Prot)	31-46
	fx 57 (1438)	fx 57 (1438) SQTLQFDEQ	SQTLQFDEQ	6/6	BMP-3	human	4557371 (NCBI)	346-354
	fx 57 (1652) SLKPSNHA	SLKPSNHA	SLKPSNHA	8/8	BMP-3	human	4557371 (NCBI)	410-417
7	fx 51 (1093) AALRPLVKP	AALRPLVKP	AALRPLVKP	6/6	60s Ribosomal Protein L32	mouse	P17932 (Swiss-Prot)	1-9
	fx 37 (no MS)	fx 37 (no MS) A(H)I(Q)VERYV	AIVER	5/5	60s Ribosomal Protein L32	mouse	P17932 (Swiss-Prot)	109-113
	fx 37 (no MS)	fx 37 (no MS) A(H)I(Q)VERYV	HQSDRYV	2/2	60s Ribosomal Protein L32	monse	P17932 (Swiss-Prot)	22-28
8	fx 78 ()	fx 78 () XALF(G)AQLGXALGPI	no match		777			
6	fx 56 (1567)	fx 56 (1567) SOTLOFDEQT	SQTLQFDEQT	10/10	BMP-3	human	P12645 (Swiss-Prot)	346-355



Figure 15B: Identification of Proteins by Amino Acid Sequencing of Tryptic Fragments from 1D Gels

Band	Band Sample	Sequence Data	Best Database Match Match	Match	Identification	Species	Species Accession No.	AAs
1								
=		SQTLXF	SQTLQF	9/9	BMP-3	human	4557371 (NCBI)	346-351
 !		fx 47 (1772) VLATVTKPVGGDK	VLATVTKPVGGDK	13/13	60s Ribosomal Protein L6	human	human Q02878 (Swiss-Prot)	87-99
	fx 76 (1795)	xVFAL	VFAL	4/4	60s Ribosomal Protein L6	human	Q02878 (Swiss-Prot)	273-276
	fx 61 (1145)	fx 61 (1145) AVPQLQGYLR	AIPQLQGYLR	9/10	60s Ribosomal Protein L6	human	numan Q02878 (Swiss-Prot)	262-271
18								
22	fx 58 (1101)	ALDAAYCFR	ALDAAYCFR	6/6	TGF-β2	human	human P08112 (Swiss-Prot)	303-311
:	fx 69 (no match)	fx 69 (no match) GYNANFCAGACPYL	GYNANFCAGACPYL	14/14	TGF-ß2	human	numan P08112 (Swiss-Prot)	340-353
1	fx 66 (1411.71)	VNSQSLSPY	VNSQSLSPY	6/6	SPP24	bovine	bovine Q27967 (Swiss-Prot)	42-50
25	fx 39 (1470)	KAAKPSV(P)	KAAKPSVP	8/8	Histone H1.x	human	JC4928 (PIR)	199-206
53								

fx≓fraction number (molecular weight of fragment, as measured by SDS-PACE)

Figure 16A: Identification of Proteins by Mass Spectrometry of Tryptic Fragments from ID Gels

Band Mass Spec Brofile Cassion Accession Mass Spec	Accession		Mass S	oec	Mass Spec	Mass	AAc	% Coverane	Comments
mass spec rione species Number Data	Number		Data		Database	Difference	2	70 CO 10 BC	
4 peaks match with human 87668 (NCBI) 1172.97	human 87668 (NCBI)		1172	2.97	1172.37	09:0	110-121	22	
histone H1 c 1579.87		1579	1579	187	1579.71	0.16	62-29		15 MS neaks match with Band 2
	170	1021	170	1708.47	1707.89	0.58	64-79		
20	20	20	20	2011.58	2012.32	-0.74	35-54		
3 peaks match with human 87668 (NCBI)	human 87668 (NCBI)		15	579.76	1579.71	0.05	65-79*	16	identification of starred peptide
			171	708.02	1707.89	0.13	64-79		confirmed by sequence analysis
502	20.	20.	20.	2012.12	2012.32	-0.20	35-54		15 MS peaks match with Band 1
7 peaks match with rat R3RT20 (PIR) 112	rat R3RT20 (PIR)	20 (PIR)	112	1129.76	1129.40	0.36	50-59	62	
			115	156.21	1156.30	60'0-	76-83		
	133	133	133	1334.46	1334.62	-0.16	56-66		
13	136	138	136	1352.13	1351.58	0.55	88-99		
15	15	15	15	518.04	1517.77	0.27	9-21		
19	19	19	19	1919.02	1919.19	-0.17	5-21		
34	34	34	34	3404.02	3404.87	-0.85	88-119		
3 peaks match with human NP002309 19	human NP002309		19	987.95	1988.27	-0.32	150-167	9	12 MS peaks match with Band 8
(Swiss-Prof)	(Swiss-Prof)		24,	2410.35	2410.63	-0.28	648-669		
(22.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.			26	2610.57	2610.10	0.47	455-478		

Figure 16B: Identification of Proteins by Mass Spectrometry of Tryptic Fragments from ID Gels

Dan d	Mace Spee Drofile	Sporioe	Accession	Mass Spec	Mass Spec	Mass	300	% Coverage	Comments
	Daniel Mass Spec Floring Species	Species		Data	Database	Difference	ŝ	26m12400 0/	
2	9 peaks match with	human	4557371	1113.32	1113.31	0.01	361-368	48	% coverage calculation is relative
	RMP-3			1438.53	1438.58	•	346-357		to the mature BMP-3, 183 AAS
			(1221)	1566.76	1566.76	00.00	345-357		(290-472)
				1651.86	1651.91	-0.05	410-424		
				1794.09	1794.02	0.07	346-360		
				2268.46	2268.63	-0.17	374-392		
				2424.45	2424.81	-0.36	373-392		Identification of starred peptide
				3409.15	3407.77	1.38	290-318*		confirmed by sequence analysis
9	3 peaks match with human	human	P30533	1002.24	1002.15	60.0	283-290	11	
	α2-Macroglobulin		(Swiss-Prot)	2362.58	2362.43	0.15	129-150		
	RAP			3048.51	3048.52	-0.01	257-282		
	2 peaks match with human	human	4557371	1566.93	1566.75	0.18	346-357	15	% coverage calculation is relative
	BMP-3		(NCBI)	1651.88	1651.91	-0.03	410-424		to the mature BMP-3, 183 AAS
						,			(290-472)

Figure 16C: Identification of Proteins by Mass Spectrometry of Tryptic Fragments from ID Gels

			Accession	Mass Spec	Mass Spec	Mass	344	% Coverage	Comments
Dand	band mass spec Profile species	salpade	Number	Data	Database	Difference	Ž.	/ October 1950	
7	4 peaks match with	monse	P17932	1033.25	1033.17	80.0	67-75	33	
	rihocome 1 32		(Swise-Prof)	1093.31	1093.40	60'0-	1-10*		
			(2010)	1134.72	1134.28		65-74		
				1449.78	1449.66	0.12	19-29		
_	5 peaks match with	human	4557371	1060.42	1060.20	0.22	102-111	21	% coverage catculation is relative to
	RMD-3		(NCBI)	1113.39	1113.31	80.0	361-368		the mature BMP-3, 183 AAS (290-
	? בו		(inchi)	1360.26	1360.58	-0.32	190-200		472)
				1652.28	1621.91	0.37	410-424		
				1793.62	1794.02	-0.40	346-360		
8	1 peak matches with	human	NP002309	2410.37	2410.63	-0.26	648-669	င	12 MS peaks match with Band 4
	Lysyl Oxidase RP		(Swiss-Prot)				_		
6	6 peaks match with	human	4557371	1113.14	1113.31	-0.17	361-368	36	% coverage calculation is relative to
,	RMP.3		(NCRI)	1438.60	1438.58	0.02	346-357		the mature BMP-3, 183 AAS (290-
	5		/1011	1566.77	1566.76	0.01	345-357		472)
				1651.91	1651.61	0.30	410-424		
				2901.67	2901.19		41-66		
				3408.94	3407.77	1.17	290-318		

Figure 16D: Identification of Proteins by Mass Spectrometry of Tryptic Fragments from ID Gels

Band	Band Macs Spec Brofile	Species	Accession	Mass Spec	Mass Spec	Mass	948	% Coverage	Comments
2	יוומסט סלוכר די סווופ	Sheries	Number	Data	Database	Difference	Ĉ	/	3
=	5 peaks match with	human	4557371	1113.23	1113.31	-0.08	361-368	48	% coverage calculation is relative to
	BMP-3		(NCR)	1651.73	1651.91	-0.18	410-424		the mature BMP-3, 183 AAS (290-
)		(1201)	1793.58	1794.02	-0.44	346-360		472)
				2424.24	2424.81	-0.57	373-392		
				3408.34	3407.77	0.57	290-318		
	5 peaks match with	human	Q02878	1140.38	1140.23	0.15	114-122	16	
	ribosome L6		(Swiss-Prot)	1526.88	1526.86	0.05	141-155		
		monse	P47911	1059.15	1059.12	0.03	10-20		
			(Swiss-Prof)	1145.36	1145.35	0.01	262-271		
			(2010)	1386.74	1386.68	90:0	260-271		
18	4 peaks match with	human	P08112	1101.20	1101.26	90.0-	303-311	52	
	TGF-82		(Swiss-Prof)	1175.26	1175.42	-0.16	400-409		
	<u>!</u>		,	2240.37	2240.60	-0.23	312-328		
				2691.70	2691.91	-0.21	340-362		
	5 peaks match with	bovine	Q27967	1410.93		-0.67	42-53	30	
	SPP24		(Swiss-Prot)	1447.59	1447.65	90.0-	113-124		
	5		,	1540.64	1540.60	0.04	86-98		
				1869.10	1869.05	0.05	62-77		
				2268.47	2268.57	-0.10	33-53		

Figure 16E: Identification of Proteins by Mass Spectrometry of Tryptic Fragments from ID Gels

% Constants		63					11		14					31 % coverage calculation is relative to	the mature BMP-3,183 AAS (280-472)			
9 4	273	303-311	400-409	312-347	312-328	340-362	42-53	113-124	48-57	107-118	107-119	48-58	43-57	102-111	346-357	345-357	410-424	0.000
Mass	Difference	-0.11	-0.29	-0.26	-0.35	-0.30	-0.37	-0.25	90.0	-0.64	-0.67	-0.02	-0.74	0.23	0.25	0.16	-0.11	00 7
Mass Spec	Database	1101.26	1175.42	2084.42	2240.60	2691.91	1411.60	1447.65	1208.40	1222.35	1350.52	1364.59	1732.97	1060.20	1438.58	1566.76	1651.91	CC C076
Mass Spec	Data	1101.15	1175.13	2084.16	2240.25	2691.61	1411.23	1447.40	1208.46	1221.71	1349.85	1364.57	1732.23	1060.43	1438.83	1566.92	1651.80	00 007 0
Accession	Number	P08112	(Swiss-Prof)	(2)			Q27967	(Swiss-Prot)	JC4928 (PIR)	•	,	•		4557371	(RCR)			
Choosing	salpade	human			•		bovine		human				_	human	_	_		
Mace Coop Drofile	Dalid Mass Spec Florine	5 peaks match with	TGE-R2	<u>į</u>			2 peaks match with	SPP24	5 peaks match with	histone H1 v				5 peaks match with	RMP.3	5		
Band	Danu	22					·		25									



Figure 16F: Identification of Proteins by Mass Spectrometry of Tryptic Fragments from ID Gels

Band Mass Spec Profile Species 29 4 peaks match with human BMP-3	Species Access Numb human 45573	Accession Number 4557371 (NCBI)	Mass Spec Data 1113.22	Mass Spec Database 1113.31	Mass Difference -0.09	AAs 361-368 346-357	% Coverage	Comments % coverage calculation is relative to the mature BMP-3, 183 AAS (290-472)
		()	1566.86	1566.75		345-357		
		_	3409.04	77.7040	1.2.1	010-067		

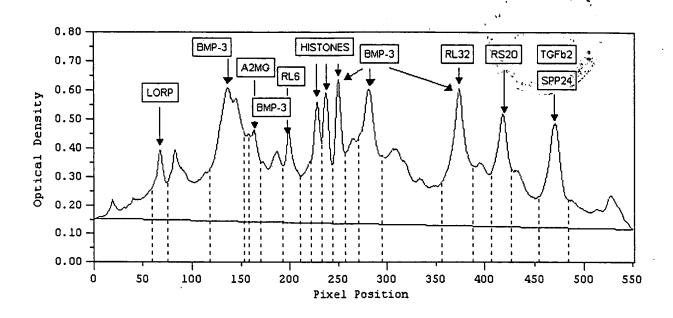


Figure 17A



Figure 17B

FIGURE 18: Quantitation of Identified BP proteins

Identified Protein	Percentage of Total Protein
LORP	2
BMP-3	11
BMP-3 and A2-MG	3
RL6 & BMP-3	4
Histone	3
Histone	3
Histone & BMP-3	4
BMP-3	8
RL32 & BMP-3	8
RS2D	5
SPP24 & TGF-β2	6
Total	58%

Figure 19A Identification of Proteinsby Mass Spectrometry of Fragments from 2D Cels

Comments			:	•			peptide match	confirmed by	wednesd domination								30			,
Coverane										NO.		14					٠.			
AAs			472-487			366-382	488-504			241-253	899-917	105-116	. : .	58-70		301-314	36.134	714-295	239-261	131-154
	3	5	<u>ਲ</u> ਹ	·		0.51	₹ Z		•	.0.31	0.20	970		0.14	0.36	1.06	0.71	1.40	D. 80	D.41
	Park Learn	DECEMBER	1837.14		·	1921.14	YN.			1609,08	2410.63	1606.60		1548.70		1680.80	1834.00	2351.50	2380.70	2727.50
NS Perke	┰	Date	1837.01			1921.65	2679.51		•	1609.57	2410.89	1407.76		1548.64	(881,18	18B1 &6	1834.71	2352.00	2381.50	272(5)
AEC. Na.			P05160 (94)cc	B	<i>:</i>					NP002308 (SWGS-Prof)		P25075 (SWESS-	Ê							
Species			Human							Human		Bovine					·.		. •	
y.	7707	: :	2 peaks match	WIL	Coagulatean					2 peaks malch		8 peaks mutch	with Carillepsin							
Spel Digest			Lysc				:		·	Trypsen		Lysc								
1828			-							~		6								

Figure 19B

Identification of Proteinsby Mass Spectrometry of Fragments from 2D Gels

	Commence			peptide matches	confirmed by sequence analysis					•								•			, a	₩.		- 4		
	2	Coverage					20			16		90					-				٠.				. •	
	3	٠					26-31	32-37	98-107	42-80	21-32	78-85			99-108	99-108	42-53	113-124	86-98	85-88	62-77	61-77	21-41	78-98	88-108	125-151
			Diff	NA		2.02	-0.34	-0.27	-0.17	-0.02	0.47	-0.09			-0.24	0.11	-0.07	-0.02	0.05	0.08	0.11	0.77	0.41	0.53	-0.51	0.79
	•		Database	N/A		4593.08	774.90	809.94	1175.43	1415.58	2187.51	1078.15			1101.31	1172.31	1411.60	1447.65	1540.52	1696.71	1869.05	2025.24	2272.56	2599.65	2693.81	2928.01
	2	Peaks	Data	1461.58		4595.08	774.56	809.67	1175.26	1415.56	2187.98	1078.08			1101.07	1172.42	1411.53	1447.63	1540.57	1696.79	1889.18	2026.01	2272.97	2600.18	2693.30	2928.80
	Acc. No.			P16636 (Swiss-	Prot)		P21214 (Swiss- Prof)			QZ7967 (Swiss-	Î	QZ7967 (Swiss-	Prof)					•								
	Species			Rat			Bovine	•••		Bovine		Bovine														.*
Г	Mass Spec	Profile		2 peaks match	with Lysyl Oxidase		3 peaks match			2 peaks match	#2110 lan	13 peaks	match with	2FF24									·		٠	
L	Digest			Lys-C			Lys-C					Trypsin														
	Spoi			4			2					ø														

Figure 19C Identification of Proteinsby Mass Spectrumetry of Wragments from 2D Cels

Continents																			٠.	
Com	٠.														*4					
*	Coverage		42				10		18					-		.,,			· :	
AAS			76-31	72-57	BB-107	1-25	42.60		346-355	10.18	205.206	249-260	103-114	103-115	34-49	30-49	177-197	200-223	70.90	199.223
		Diff	-0.34	-0.25	150-	1.44	0.26		0.25	0.0B	0.22	0.02	0.17	0 DK	-0.16	-0.12	0.34	0.27	-0.49	-0.25
		Database	774.80	808.94	1175.43	3166.88	18721		917.14	0M. 15	1192.40	1300.65	1484.69	162D,82	1770.00	2238.55	23.25.ES	2681.04	2896.43	2948.35
STA	Paaks	Dada	774.56	69.60	1175.12	3168.10	2167.77		et.718	98123	1192.62	1380.6T	1484.60	1820.08	1778.SK	723B.A3	2125.90	268131	2897.84	2046.10
Acc. No.			P21214 (Swiss- Prol)				O27867 (Swiss- Pml)	•	P30072 (Swiss- Prof)						•					
Species			Bovine				Bovine		Bovine											٠.
Muss Spec	Profes		4 peaks match with TGF-62				f peak metchas with	5	Trypsin 12 peaks match with abosome	3			•							
Spat Digest			Lysc						Trypsin											
Spot			7						-											

Figure 19D

Identification of Proteinsby Mass Spectrometry of Bragments from 2D Gels

								11 Tappsta				•	10 Topsia		-					· ·		9 Typsin		Ther own	leard Direct
							MICH STORUME	<u> </u>					with bisions							£	with Abasome	7 peaks match		•	Nace Some
				٠.				Human				:	Human				·					Mouse			Species
							rioy.	-55/HS) 05/21d					67656 (NCBI)				:		• .		ਜੁਰੂ	P97351 (Swiss-			Apc. No.
	2591.60	2140.34	1587.75	1507.81	1354.03	1216.38		1183.48	2147.17	1707.65	1578.70		(327,75	1953,12	16.6171	4710 04	150372	1516.69	1348.67	1218.29		920.05	Data	Peaks	SW.
	2591.90	2140.58		(SDY.OB	1353.61	1216.39		166.38		1707.89	1579.71		132/56	1953.10	decuzi)	77000	1593.82	15(6,69	1346.49	1218.31	•	020,10	Dalahase		
	0 -0.10		023	0.12	1 . 0A2			0.10	-0.36		-0.01		81.0	Τ.	1			000	E 5.0	-0.02		-0.05	1_		
1	3.4	221-2	H	198-21	230-24			230-239	_		65-78		- A	10-60	77	199-212	87.78	174-186	151-161	152-181		18-25			A
1	80	Ιœ	10	TE										3								8	3	Coverage	*
																									Comments